

Abstract of the Disclosure

CAPACITANCE SENSOR AND DETECTOR USING SAME  
FOR DETECTING OBJECT BEING CAUGHT BY DOOR

- 5           A capacitance sensor with a directionality characteristic in the direction of its  
detection surface is incorporated in a detector for detecting an object that may be feared  
to or about to be caught by a closing door such as a slide door of a vehicle. The  
capacitance sensor has a main body enclosing detection electrodes, an insulating material  
placed in between and a shield electrode serving to provide the directionality. A water-  
10 repellent finish is provided at least on a portion of the outer surface of the main body  
including the detection surface for preventing water drops from remaining or becoming  
larger. The detection surface may be unevenly shaped with protrusions for making it  
difficult for water drops to remain attached.